

CENTRAL BOARD OF SECONDARY EDUCATION
(COMPUTER SCIENCE – 083)

PRACTICAL FILE

SESSION: 2025–2026



SUBMITTED BY

Name:

Class: XII

Section:

Roll No:

SUBMITTED TO

Teacher's Name:

School Name:

City:

CERTIFICATE

This is to certify that _____ of Class XII
Section __ has successfully completed the Computer
Science Practical File as prescribed by the Central Board
of Secondary Education (CBSE) for the academic session
_____.

This practical file is the bonafide work of the student
and has been completed under my supervision.

Teacher's Signature: _____

Examiner's Signature _____

Date: _____

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PYTHON PROGRAMS

Program No. 1

Aim:

To read a text file line by line and display each word separated by a #.

Algorithm:

1. Open the text file in read mode.
2. Read the file line by line.
3. Split each line into words.
4. Join the words using the symbol #.
5. Display the output.

Program Code:

```
with open("data.txt", "r") as f:
    for line in f:
        words = line.split()
        print("#".join(words))
```

Console:

```
Input file (data.txt):
This is a test file
```

Output:

```
This#is#a#test#file
```

Program No. 2

Aim:

To read a text file and display the number of vowels, consonants, uppercase and lowercase characters.

Algorithm:

1. Open the text file in read mode.
2. Initialize counters for vowels, consonants, uppercase and lowercase letters.
3. Read the file character by character.
4. For each character:
 - a. Check if it is a letter.
 - b. If it is a vowel, increment vowel counter; otherwise increment consonant counter.
 - c. If it is uppercase, increment uppercase counter.
 - d. If it is lowercase, increment lowercase counter.
5. Display all counts.

Program Code:

```
with open("data.txt", "r") as f:
    text = f.read()
    for ch in text:
        if ch.isalpha():
            if ch.lower() in "aeiou":
                vowels += 1
            else:
                consonants += 1
            if ch.isupper():
                uppercase += 1
            if ch.islower():
                lowercase += 1

print("Vowels:", vowels)
print("Consonants:", consonants)
print("Uppercase letters:", uppercase)
print("Lowercase letters:", lowercase)
```

Console:

Input file (data.txt):
Hello World

Output:

Vowels: 3
Consonants: 7
Uppercase letters: 2
Lowercase letters: 8

Program No. 3

Aim:

To remove all the lines that contain the character 'a' in a file and write the remaining lines to another file.

Algorithm:

1. Open the input file in read mode.
2. Open the output file in write mode.
3. Read the input file line by line.
4. For each line, check if it contains the character 'a'.
 - a. If it does NOT contain 'a', write it to the output file.
5. Close both files.
6. Display a message that the operation is complete.

Program Code:

```
with open("input.txt", "r") as infile, open("output.txt", "w") as
outfile:
    for line in infile:
        if 'a' not in line:
            outfile.write(line)

print("Lines without 'a' have been written to output.txt")
```

Console:

```
Input file (input.txt):
apple
orange
hello
world
```

Output:

```
Output file (output.txt):
hello
world
```

Program No. 4

Aim:

To create a binary file with name and roll number, and search for a given roll number to display the corresponding name.

Algorithm:

1. Import the `pickle` module for binary file handling.
2. Create a dictionary with roll numbers as keys and names as values.
3. Open a binary file in write mode and save the dictionary using `pickle.dump()`.
4. Open the binary file in read mode.
5. Input a roll number to search.
6. Check if the roll number exists in the dictionary:
 - a. If found, display the name.
 - b. If not found, display an appropriate message.
7. Close the file.

Program Code:

```
import pickle

# Step 1: Create and save data
students = {1: "Krishna", 2: "Aditya", 3: "Rohit"}

with open("students.dat", "wb") as f:
    pickle.dump(students, f)

# Step 2: Search for a roll number
roll = int(input("Enter roll number to search: "))

with open("students.dat", "rb") as f:
    data = pickle.load(f)
    if roll in data:
        print("Name:", data[roll])
    else:
        print("Roll number not found")
```

Console:

Enter roll number to search: 2

Name: Aditya

Output:

Enter roll number to search: 5

Roll number not found

Program No. 5

Aim:

To create a binary file with roll number, name, and marks. Update the marks for a given roll number.

Algorithm:

1. Import the `pickle` module for binary file handling.
2. Create a dictionary with roll numbers as keys and a list of [name, marks] as values.
3. Open a binary file in write mode and save the dictionary using `pickle.dump()`.
4. Open the binary file in read mode and load the data.
5. Input the roll number whose marks need to be updated.
6. If the roll number exists:
 - a. Input the new marks.
 - b. Update the marks in the dictionary.
 - c. Save the updated dictionary back to the binary file.
7. If the roll number does not exist, display a message.
8. Display updated data.
9. Close the file.

Program Code:

```
import pickle

# Step 1: Create and save initial data
students = {1: ["Krishna", 85], 2: ["Aditya", 90], 3: ["Rohit", 75]}

with open("marks.dat", "wb") as f:
    pickle.dump(students, f)

# Step 2: Update marks
roll = int(input("Enter roll number to update marks: "))

with open("marks.dat", "rb") as f:
    data = pickle.load(f)

if roll in data:
    new_marks = int(input("Enter new marks: "))
    data[roll][1] = new_marks
    print("Marks updated successfully.")
```

```
else:
    print("Roll number not found.")

# Save updated data back to file
with open("marks.dat", "wb") as f:
    pickle.dump(data, f)

# Display updated data
print("Updated Student Data:")
for r, info in data.items():
    print("Roll:", r, "Name:", info[0], "Marks:", info[1])
```

Console:

Enter roll number to update marks: 2
Enter new marks: 95

Output:

Marks updated successfully.
Updated Student Data:
Roll: 1 Name: Krishna Marks: 85
Roll: 2 Name: Aditya Marks: 95
Roll: 3 Name: Rohit Marks: 75

Program No. 6

Aim:

To write a random number generator that generates random numbers between 1 and 6 (simulates a dice)

Algorithm:

1. Import "random" module
2. Print the randint between 0 to 6.

Program Code:

```
import random
```

```
print(random.randint(0, 6));
```

Output:

Upon executing again and again.

5

2

1

0

6

Program No 7.

Aim:

To write a Python program to implement a stack using list

Algorithm:

1. Defining a stack variable as list.
2. Appending elements A, B, C to it using built in list append functions
3. Printing the stack out to the console.
4. Peeking the top element.
5. Popping the list.

Program Code:

```
stack = []

# Push
stack.append("A")
stack.append("B")
stack.append("C")
print("Stack: ", stack)

# Peek
topElement = stack[-1]
print("Peek: ", topElement)

# Pop
poppedElement = stack.pop()
print("Pop: ", poppedElement)

# Stack after Pop
print("Stack after Pop: ", stack)

# isEmpty
isEmpty = not bool(stack)
print("isEmpty: ", isEmpty)

# Size
```

```
print("Size: ", len(stack))
```

Output:

Stack: ['A', 'B', 'C']

Peek: C

Pop: C

Stack after Pop: ['A', 'B']

isEmpty: False

Size: 2

Program No 8.

Aim:

To create a CSV file by entering User ID and Password, and to read and search the password for a given User ID.

Algorithm:

1. Start
2. Import the `csv` module
3. Open a CSV file in write mode
4. Enter User ID and Password from the user
5. Write the entered data into the CSV file
6. Close the file
7. Open the CSV file in read mode
8. Enter the User ID to be searched
9. Read each row from the CSV file
10. If the entered User ID matches, display the corresponding password
11. If no match is found, display "User ID not found"
12. Stop

Program Code:

```
import csv

# Create CSV file and write data
with open("users.csv", "w", newline="") as file:
    writer = csv.writer(file)
    writer.writerow(["UserID", "Password"])

    n = int(input("Enter number of users: "))
    for i in range(n):
        uid = input("Enter User ID: ")
        pwd = input("Enter Password: ")
        writer.writerow([uid, pwd])

# Read and search password
search_id = input("\nEnter User ID to search password: ")
found = False
```

```
with open("users.csv", "r") as file:
    reader = csv.reader(file)
    next(reader) # skip header

    for row in reader:
        if row[0] == search_id:
            print("Password is:", row[1])
            found = True
            break

if not found:
    print("User ID not found")
```

Output:

Enter number of users: 2

Enter User ID: admin

Enter Password: admin123

Enter User ID: user1

Enter Password: pass456

Enter User ID to search password: user1

Password is: pass456

Program No 9.

Aim:

To read a text file and write its contents into another file in reverse order.

Algorithm:

1. Start
2. Open the source file in read mode
3. Read all lines from the file
4. Reverse the order of lines
5. Open the destination file in write mode
6. Write the reversed lines into the new file
7. Close both files
8. Stop

Program Code:

```
source = open("source.txt", "r")
lines = source.readlines()
source.close()

dest = open("reverse.txt", "w")
for line in reversed(lines):
    dest.write(line)
dest.close()

print("File copied in reverse order")

## Output
File copied in reverse order
```

Output:

File copied in reverse order

Program No 10.

Aim:

To count the number of lines, words, and characters in a text file.

Algorithm:

1. Start
2. Open the text file in read mode
3. Read all lines
4. Count number of lines
5. Count words and characters
6. Display the counts
7. Close the file
8. Stop

Program Code:

```
file = open("data.txt", "r")
lines = file.readlines()

line_count = len(lines)
word_count = 0
char_count = 0

for line in lines:
    word_count += len(line.split())
    char_count += len(line)

file.close()

print("Lines:", line_count)
print("Words:", word_count)
print("Characters:", char_count)
```

Output:

```
Lines: 3
Words: 18
Characters: 96
```

Program No 11.

Aim:

To search for a given word in a text file and display the line number.

Algorithm:

1. Start
2. Open the file in read mode
3. Read file line by line
4. Search for the given word
5. Display line number if found
6. If not found, display message
7. Stop

Program Code:

```
word = input("Enter word to search: ")
file = open("data.txt", "r")

found = False
line_no = 1

for line in file:
    if word in line:
        print("Word found at line", line_no)
        found = True
        line_no += 1

if not found:
    print("Word not found")

file.close()
```

Output:

```
Enter word to search: Python
Word found at line 2
```

Program No 12.

Aim:

To create a CSV file of student records and display students scoring more than 75 marks.

Algorithm:

1. Start
2. Create a CSV file
3. Enter roll number, name, and marks
4. Read the CSV file
5. Display students with marks > 75
6. Stop

Program Code:

```
import csv

with open("students.csv", "w", newline="") as file:
    writer = csv.writer(file)
    writer.writerow(["Roll", "Name", "Marks"])
    for i in range(3):
        r = input("Roll: ")
        n = input("Name: ")
        m = int(input("Marks: "))
        writer.writerow([r, n, m])

print("\nStudents scoring above 75:")

with open("students.csv", "r") as file:
    reader = csv.reader(file)
    next(reader)
    for row in reader:
        if int(row[2]) > 75:
            print(row)
```

Output:

Students scoring above 75:

```
['2', 'Rahul', '82']
```

Program No 13.

Aim:

To implement a queue using list in Python.

Algorithm:

1. Start
2. Create an empty list
3. Insert elements using enqueue
4. Remove elements using dequeue
5. Display the queue
6. Stop

Program Code:

```
queue = []

queue.append(10)
queue.append(20)
queue.append(30)

print("Queue:", queue)

queue.pop(0)
print("After Dequeue:", queue)
```

Output:

```
Queue: [10, 20, 30]
After Dequeue: [20, 30]
```

Program No 14.

Aim:

To create a binary file with employee ID and name, and display all records.

Algorithm:

1. Start
2. Create a binary file
3. Write employee records using pickle
4. Read and display records
5. Stop

Program Code:

```
import pickle

file = open("emp.dat", "wb")
data = [
    {"id": 1, "name": "Krishna"},
    {"id": 2, "name": "Aditya"}
]
pickle.dump(data, file)
file.close()

file = open("emp.dat", "rb")
records = pickle.load(file)

for r in records:
    print(r)

file.close()
```

Output:

```
{'id': 1, 'name': 'Krishna'}
{'id': 2, 'name': 'Aditya'}
```

Program No 15.

Aim:

To create a text file and count the frequency of each word present in the file.

Algorithm:

1. Start
2. Open the text file in read mode
3. Read the entire content of the file
4. Split the content into words
5. Count the frequency of each word
6. Display each word with its frequency
7. Close the file
8. Stop

Program Code:

```
file = open("words.txt", "r")
text = file.read().lower()
file.close()

words = text.split()
freq = {}

for word in words:
    if word in freq:
        freq[word] += 1
    else:
        freq[word] = 1

for word in freq:
    print(word, ":", freq[word])
```

Output:

```
python : 3
file : 2
program : 1
```

SQL QUERIES

1. Create a table named store

```
MariaDB [PROJECT]> CREATE TABLE store (  
-> itemno INT PRIMARY KEY,  
-> item CHAR(20),  
-> scode INT,  
-> qty INT,  
-> rate INT,  
-> lastbuy DATE  
-> );  
Query OK, 0 rows affected (0.010 sec)
```

2. Display all details of store

```
MariaDB [PROJECT]> SELECT * FROM store;
```

itemno	item	scode	qty	rate	lastbuy
1	Sharpener	23	100	5	2025-01-29
2	Ball Pen	22	200	10	2025-01-29
3	Gel Pen	21	150	15	2025-01-29
4	Eraser	22	50	3	2025-01-29

4 rows in set (0.001 sec)

3. Display details of all items in the store table in descending order of item no.

```
MariaDB [PROJECT]> SELECT * FROM store ORDER BY itemno DESC;
```

itemno	item	scode	qty	rate	lastbuy
4	Eraser	22	50	3	2025-01-29
3	Gel Pen	21	150	15	2025-01-29
2	Ball Pen	22	200	10	2025-01-29
1	Sharpener	23	100	5	2025-01-29

4 rows in set (0.000 sec)

4. Display item no and item name of those items whose rate is more than 5 rupees

```
MariaDB [PROJECT]> SELECT itemno, item FROM store WHERE rate > 5;
```

itemno	item
2	Ball Pen
3	Gel Pen

2 rows in set (0.001 sec)

5. Display details of those items whose code is 22 or qty is more than 110

```
MariaDB [PROJECT]> SELECT * FROM store WHERE scode = 22 OR qty > 110;
```

itemno	item	scode	qty	rate	lastbuy
2	Ball Pen	22	200	10	2025-01-29
3	Gel Pen	21	150	15	2025-01-29
4	Eraser	22	50	3	2025-01-29

3 rows in set (0.001 sec)

6. Display item name and rate if 2% discount is given on each item

```
MariaDB [PROJECT]> SELECT item, rate, rate * 0.98 AS discounted_rate FROM store;
```

item	rate	discounted_rate
Sharpener	5	4.90
Ball Pen	10	9.80
Gel Pen	15	14.70
Eraser	3	2.94

4 rows in set (0.000 sec)

7. Display no. of distinct scode from store

```
MariaDB [PROJECT]> SELECT COUNT(DISTINCT scode) AS distinct_scode_count FROM store;
+-----+
| distinct_scode_count |
+-----+
| 3 |
+-----+
1 row in set (0.001 sec)
```

8. Display maximum lastbuy from store

```
MariaDB [PROJECT]> SELECT MAX(lastbuy) AS latest_purchase_date FROM store;
+-----+
| latest_purchase_date |
+-----+
| 2025-01-29 |
+-----+
1 row in set (0.000 sec)
```

9. Create table suppliers and insert rows according to scode

```
MariaDB [PROJECT]> CREATE TABLE suppliers (
->     scode INT PRIMARY KEY,
->     sname VARCHAR(100) NOT NULL,
->     address VARCHAR(255),
->     contact_number VARCHAR(20)
-> );
Query OK, 0 rows affected (0.009 sec)

MariaDB [PROJECT]> INSERT INTO suppliers (scode, sname, address, contact_number)
-> VALUES
-> (101, 'Supplier A', '123 Street, City, Country', '123-456-7890'),
-> (102, 'Supplier B', '456 Avenue, City, Country', '987-654-3210'),
-> (103, 'Supplier C', '789 Road, City, Country', '555-123-4567');
Query OK, 3 rows affected (0.007 sec)
Records: 3  Duplicates: 0  Warnings: 0
```

10. Select item no. item name and supplier name where qty is greater than 50

```
MariaDB [PROJECT]> SELECT store.itemno, store.item, suppliers.sname  
-> FROM store  
-> JOIN suppliers ON store.scode = suppliers.scode  
-> WHERE store.qty > 50;  
Empty set (0.001 sec)
```

11. Display total quantity group by scode

```
MariaDB [PROJECT]> SELECT scode, SUM(qty) AS total_quantity  
-> FROM store  
-> GROUP BY scode;
```

scode	total_quantity
21	150
22	250
23	100

3 rows in set (0.001 sec)

12. display details of those items where r is present in the item name

```
MariaDB [PROJECT]> SELECT * FROM store  
-> WHERE item LIKE '%r%';
```

itemno	item	scode	qty	rate	lastbuy
1	Sharpener	23	100	5	2025-01-29
4	Eraser	22	50	3	2025-01-29

2 rows in set (0.000 sec)

13. Delete column qty from store table

```
MariaDB [PROJECT]> ALTER TABLE store  
-> DROP COLUMN qty;  
Query OK, 0 rows affected, 1 warning (0.011 sec)  
Records: 0 Duplicates: 0 Warnings: 1
```

14. Change scode of ball pen to 23

```
MariaDB [PROJECT]> UPDATE store  
  -> SET scode = 23  
  -> WHERE item = 'Ball Pen';  
Query OK, 1 row affected (0.007 sec)  
Rows matched: 1  Changed: 1  Warnings: 0
```

15. Delete table store

```
MariaDB [PROJECT]> DROP TABLE store;  
Query OK, 0 rows affected (0.009 sec)
```

Project File

```
import mysql.connector
import time

db = mysql.connector.connect(
    host="localhost",
    user="root",
    password="1234",
    database="contact"
)

cursor = db.cursor()
cursor.execute("""
CREATE TABLE IF NOT EXISTS book (
    name char(30) primary key,
    address char(100),
    mobile char(15),
    email char(30)
);
""")

def intro():
    print("=" * 80)
    print("{:^80s}".format("CONTACT"))
    print("{:^80s}".format("BOOK"))
    print("{:^80s}".format("PROJECT"))
    print("{:^80s}".format("MADE BY: Student"))
    print("=" * 80)
    print()
    time.sleep(2)

def create_record():
    name = input("Enter name: ")
    address = input("Enter address: ")
    mobile = input("Enter mobile: ")
    email = input("Enter email: ")
    sql = "INSERT INTO book(name,address,mobile,email) VALUES
(%s,%s,%s,%s)"
    record = (name, address, mobile, email)
    cursor.execute(sql, record)
    db.commit()
    print("Record Entered Successfully\n")
```

```

def search(name):
    sql = "SELECT * FROM book WHERE name = %s"
    value = (name,)
    cursor.execute(sql, value)
    record = cursor.fetchone()
    if record is None:
        print("No such record exists")
    else:
        print('Name:', record[0])
        print('Address:', record[1])
        print('Mobile:', record[2])
        print('E-mail:', record[3])

def display_all():
    cursor.execute("SELECT * FROM book")
    print('{0:20}{1:30}{2:15}{3:30}'.format('NAME', 'ADDRESS',
'MOBILE NO', 'E-MAIL'))
    for record in cursor:
        print('{0:20}{1:30}{2:15}{3:30}'.format(record[0], record[1],
record[2], record[3]))

def delete_record(name):
    sql = "DELETE FROM book WHERE name = %s"
    value = (name,)
    cursor.execute(sql, value)
    db.commit()
    if cursor.rowcount == 0:
        print("Record not found")
    else:
        print("Record deleted successfully")

def modify_record(name):
    sql = "SELECT * FROM book WHERE name = %s"
    value = (name,)
    cursor.execute(sql, value)
    record = cursor.fetchone()
    if record is None:
        print("No such record exists")
    else:
        while True:
            print("\nPress the option you want to edit: ")
            print("1. Name")
            print("2. Address")
            print("3. Mobile")

```

```

print("4. BACK")
print()
ch = int(input("Select Your Option (1-4): "))
if ch == 1:
    new_name = input("Enter new name: ")
    sql = "UPDATE book SET name = %s WHERE name = %s"
    values = (new_name, name)
    cursor.execute(sql, values)
    db.commit()
    print(cursor.rowcount, "record updated successfully")
elif ch == 2:
    new_address = input("Enter new address: ")
    sql = "UPDATE book SET address = %s WHERE name = %s"
    values = (new_address, name)
    cursor.execute(sql, values)
    db.commit()
    print(cursor.rowcount, "record updated successfully")
elif ch == 3:
    new_mobile = input("Enter new mobile : ")
    sql = "UPDATE book SET mobile = %s WHERE name = %s"
    values = (new_mobile, name)
    cursor.execute(sql, values)
    db.commit()
    print(cursor.rowcount, "record updated successfully")
elif ch == 4:
    break
else:
    print("Invalid choice !!!\n")

```

```

def main():
    intro()
    while True:
        print("\nMAIN MENU")
        print("1. ADD NEW RECORD")
        print("2. SEARCH RECORD")
        print("3. DISPLAY ALL RECORDS")
        print("4. DELETE RECORD")
        print("5. MODIFY RECORD")
        print("6. EXIT")
        print()
        ch = int(input("Select Your Option (1-6): "))
        print()
        if ch == 1:
            print("ADD NEW RECORD")

```

```
        create_record()
    elif ch == 2:
        print("SEARCH RECORD BY NAME")
        name = input("Enter name: ")
        search(name)
    elif ch == 3:
        print("DISPLAY ALL RECORDS")
        display_all()
    elif ch == 4:
        print("DELETE RECORD")
        name = input("Enter name: ")
        delete_record(name)
    elif ch == 5:
        print("MODIFY RECORD")
        name = input("Enter name: ")
        modify_record(name)
    elif ch == 6:
        print("Thanks for using Contact Book")
        db.close()
        break
    else:
        print("Invalid choice")

main()
```

Output

Adding new record:

MAIN MENU

1. ADD NEW RECORD
2. SEARCH RECORD
3. DISPLAY ALL RECORDS
4. DELETE RECORD
5. MODIFY RECORD
6. EXIT

Select Your Option (1-6): 1

ADD NEW RECORD

Enter name: Abc

Enter address: 2nd-Street

Enter mobile: 9876543210

Enter email: abc@gmail.com

Record Entered Successfully

Search record by name:

Select Your Option (1-6): 2

SEARCH RECORD BY NAME

Enter name: abc

Name: Abc

Address: 2nd-Street

Mobile: 9876543210

E-mail: abc@gmail.com

If record not found:

SEARCH RECORD BY NAME

Enter name: test

No such record exists

Display all records:

MAIN MENU

1. ADD NEW RECORD
2. SEARCH RECORD
3. DISPLAY ALL RECORDS
4. DELETE RECORD
5. MODIFY RECORD
6. EXIT

Select Your Option (1-6): 3

DISPLAY ALL RECORDS

NAME	ADDRESS	MOBILE NO	E-MAIL
Abc	2nd-Street	9876543210	abc@gmail.com
Def	Oak hill	8642013579	def99@gmail.com
Pqr	Las Brujas	6138401474	pqr.z1@gmail.com

Edit records:

MAIN MENU

1. ADD NEW RECORD
2. SEARCH RECORD
3. DISPLAY ALL RECORDS
4. DELETE RECORD
5. MODIFY RECORD
6. EXIT

Select Your Option (1-6): 5

MODIFY RECORD

Enter name: pqr

Press the option you want to edit:

1. Name
2. Address
3. Mobile
4. BACK

Select Your Option (1-4): 3

Enter new mobile: 9753124680

1 record updated successfully

Delete records:

MAIN MENU

1. ADD NEW RECORD
2. SEARCH RECORD
3. DISPLAY ALL RECORDS
4. DELETE RECORD
5. MODIFY RECORD
6. EXIT

Select Your Option (1-6): 4

DELETE RECORD

Enter name: def

Record deleted Successfully

Exiting program

MAIN MENU

1. ADD NEW RECORD
2. SEARCH RECORD
3. DISPLAY ALL RECORDS
4. DELETE RECORD
5. MODIFY RECORD
6. EXIT

Select Your Option (1-6): 6

Thanks for using Contact Book